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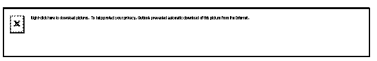
# John Dolan's Update HPLC Solutions

Separation Science e-Learning



**ISSUE 66**

## Enantiomer Separations

Recently, a reader sent a question to our "Ask the Doctor" e-mail asking how to get started with a method that required separation of enantiomers by reversed-phase HPLC. Unfortunately, the problem is a non-starter in this context. Enantiomers cannot be separated by reversed-phase techniques – they require some chirality in the system. John Dolan explains more...

***Click for PDF>>***

**ISSUE 65**

## Mobile Phase Lifetimes

A reader recently sent in this e-mail: "I am trying to find information that I can put in an SOP regarding how long a mobile phase can be used before it must be discarded" It would be nice if there were cut-and-dried answer for questions like this. Unfortunately, the answer always seems to start with "it depends." Let's look at some important factors that can influence your decision on how long to use a mobile phase...

***Click for PDF>>***

**ISSUE 64**

## Why Acid

Recently, I received an "Ask the Doctor" email from a reader asking why formic acid was specified as an additive for the mobile phase in an HPLC method he was using. Formic or trifluoroacetic acid at 0.1% concentrations are common, especially for LC-MS work. There are a number of reasons for adding an acid at low concentration to the mobile phase. Let's look at two of these: the influence on the column and the sample.

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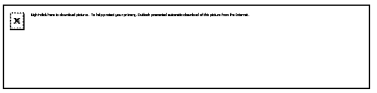

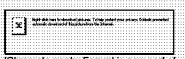

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**ASK THE DOCTOR**
If you have an analytical question for John Dolan...

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